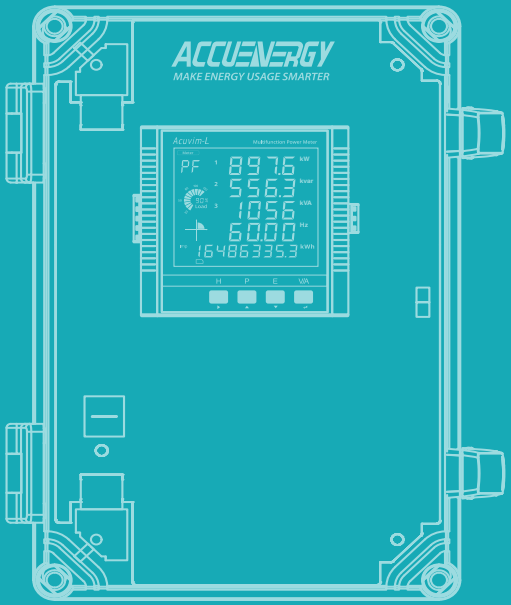
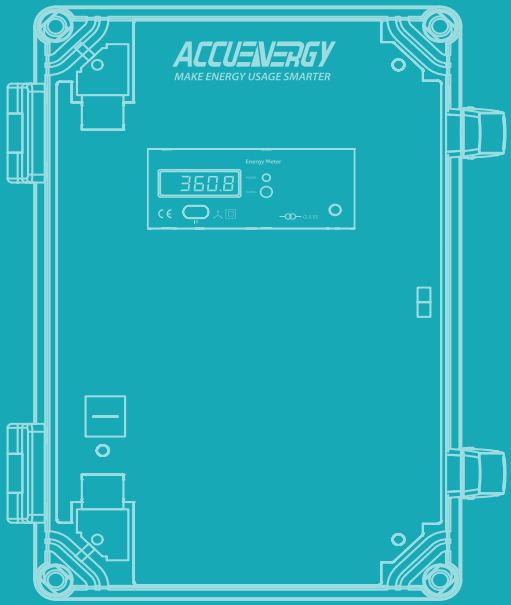
AcuPanel 9104X

ENERGY SUBMETERING PANEL

QUICK SETUP GUIDE





c UL us UL 508A

ACCUENERGY

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Important Safety Notice

Read this document and the following symbols carefully before the installation, operation and maintenance of the AcuPanel 9104X.

Accuenergy is not responsible or liable for any damages or injuries caused by improper installation and/or operation.

- Prior to maintenance and repair, the equipment must be de-energized and grounded.
- A switch or circuit breaker must be included in close proximity to the equipment and operator.
- All maintenance work must be performed by qualified professionals with formal training and experience in high voltage/current.

The following symbols can be found either in this document or on the product.

ELECTRIC HAZARD: Indicates information about procedures which must be followed to reduce the risk of electric shock and danger to personal health.

INFO: Provides additional information before an action shall be taken by the user.

Legal Notice

This AcuPanel 9104X quick setup guide provides informational and operational guidance regarding the use of the panel. While effort has been made to ensure the accuracy, reliability, and completeness of the information at the time of publication, Accuenergy assumes no responsibility for any errors, omissions, or misunderstandings in this document and reserves the right to modify its content at any time without prior notice.

Users should verify with Accuenergy or the authorized local representative that the document in use is the latest version and strictly adhere to the installation, operation, and maintenance procedures specified herein. Accuenergy shall not be held liable for any damages or consequences resulting from improper use or failure to comply with the provisions of this document. This quick setup guide may not be altered or reproduced in whole or in part by any means without the expressed written consent of Accuenergy.

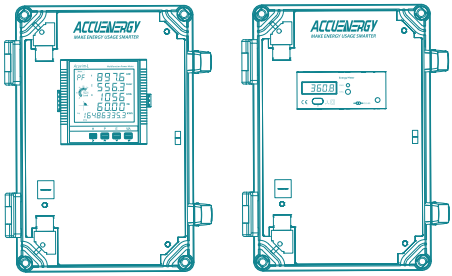
1. Package Contents

INFO

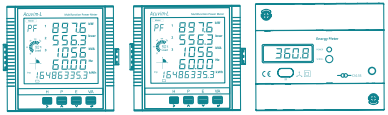
Carefully open the packaging of the panel and do not use excessive force.
Inspect all the contents of the package are not damaged before installing the panel.

A	AcuPanel 9104X Energy Submetering Panel
B	Pre-installed Acuvim II, Acuvim L, or AcuRev 1310 Multifunctional Meters
C	Four Wall Mount Lugs and Screws
D	Quick Setup Guide (Not Pictured)
E	Current Transformer Shorting Blocks (Not Pictured)

A

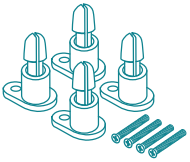


B



Acuvim II Acuvim L AcuRev 1310

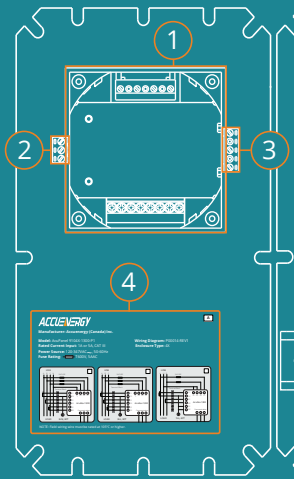
C



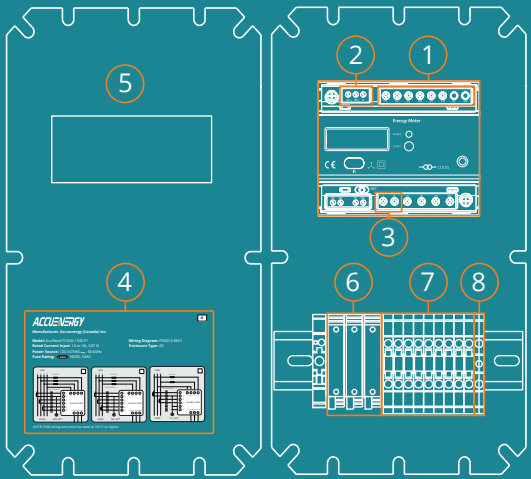
2. Submetering Panel Internal Components

1	Multifunction Meter Front or Rear View
2	RS485 Terminal
3	Pre-installed Meter Power Supply Terminal
4	Wiring Configuration Label
5	NEMA 4X Enclosure
6	Voltage Terminals
7	CT Terminals
8	Ground Terminal

ACUPANEL 9104X WITH ACUVIM II OR ACUVIM L



ACUPANEL 9104X WITH ACUREV 1310



3. Installation and Commissioning



ELECTRIC HAZARD

Installation of AcuPanel 9104X must be performed by a qualified or licensed electrician.

Before commencing the wiring or service of the energy submetering panel, ensure to de-energize and lock out all the circuits.

Short the secondary of the CT before disconnecting. Do not leave the secondary of the CT open on an energized conductor.

Ensure the polarity of the CT aligns with the connected phase correctly.

To reduce the risk of electric shock, always open or disconnect the circuit from the building power distribution system before installing or servicing current transformers.

Verify the service is fully disconnected before making any voltage connections. Connect the common ground point of the AcuPanel 9104X to the facility grounding system. Ensure proper protective earthing and compliance with electrical safety standards.

To commission the AcuPanel 9104X at the installation location, follow the steps provided.

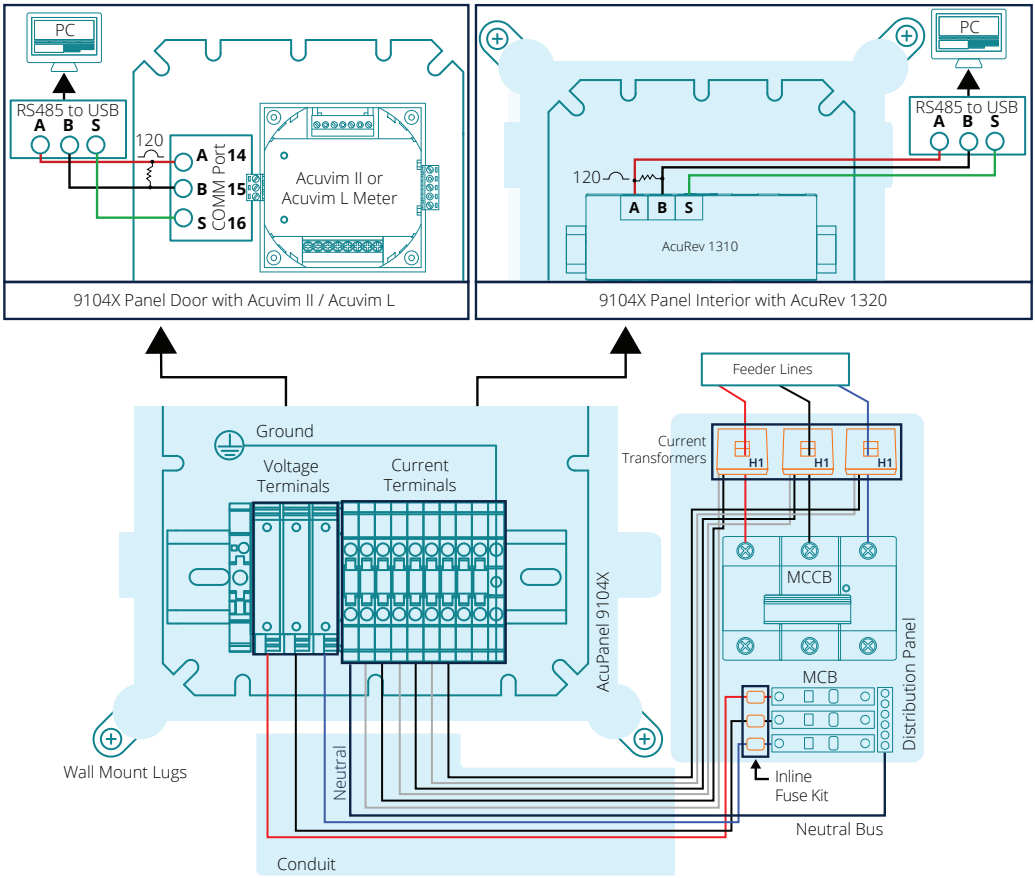
1. To vertically surface mount the AcuPanel 9104X, insert the four wall mount lugs into the four corner mounting holes at the rear of the subpanel enclosure. Secure the screws through the lugs onto the surface. Allow sufficient clearance for conduit and panel door swing.

2. Install conduit between the distribution panel and the AcuPanel 9104X. Route voltage leads, CT secondary cables, and communication wires through the conduit. Ensure that all wire sizes comply with local electrical codes.

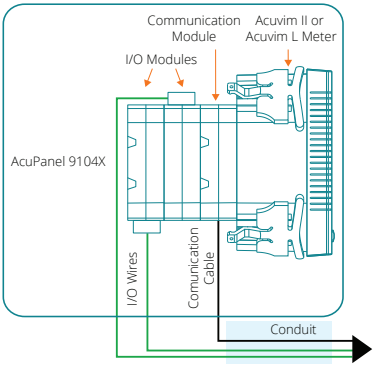
3. It is recommended to install inline fuses on the A, B, and C leads for overcurrent protection. Connect voltage reference leads A, B, and C to the corresponding voltage terminals in the AcuPanel 9104X. Secure the N lead to the neutral bus in the distribution panel to ensure reliable return path and accurate voltage measurements.

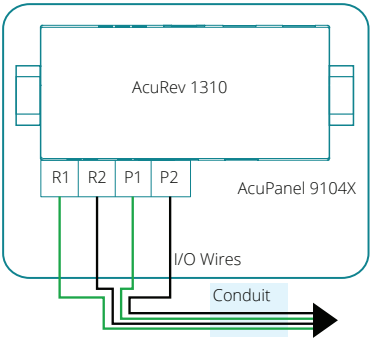
4. Install current transformers on the feeder lines in the distribution panel. Ensure the polarity arrow faces the load. Connect secondary leads to the designated push in current terminals CT1+, CT1-, CT2+, CT2-, CT3+ and CT3-. Verify the polarity of the CT connections to avoid inaccurate readings.

5. Connect the A+, B-, and S terminals on the rear of the Acuvim II and Acuvim L meters or the top of the DIN-rail mounted AcuRev 1310 meter to set up RS485 communication. Terminate the connection with a 120Ω resistor to prevent noise interference and connect the system to a PC using an RS485 to USB adapter.



6. Route the communication cables for the communication and I/O module through the bottom of the AcuPanel 9104X. Up to three optional modules can be connected to the rear of the Acuvim II or Acuvim L meter. The first module position supports WEB2, WEB2-D, PROFI, RS485, IO1, IO2, or IO3 modules, while the second and third positions support IO1, IO2, or IO3 modules.





INFO

Always connect the communication module to the meter first, before connecting any I/O modules.

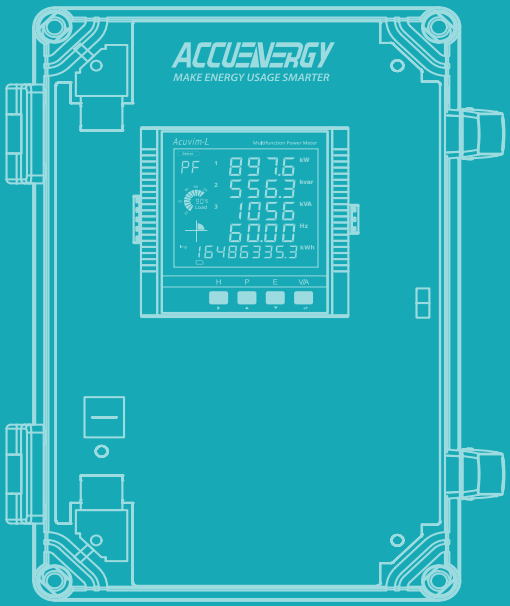
Do not connect more than two of the same I/O modules to a single meter.

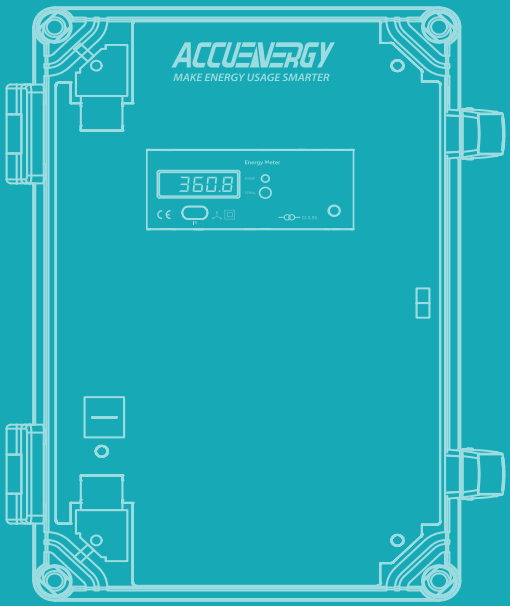
7. For the AcuRev 1310 meter, route the I/O wires through the holes at the bottom of the panel. Connect the wires to the R1 and R2 terminals for relay output and the P1 and P2 terminals for pulse counting.

4. Additional Resources

RESOURCE	DETAILS
Product Datasheet	https://www.accuenergy.com/acupanel-9104X-datasheet
User Manuals	Acuvim II User Manual: https://www.accuenergy.com/acuvim-II-manual Acuvim L User Manual: https://www.accuenergy.com/acuvim-l-manual AcuRev 1310 User Manual: https://www.accuenergy.com/acurev-1310-manual

Contact fieldservices@accuenergy.com or **Accuenergy Technical Support** for any additional queries.





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Revision Date: October 2026 Version: 1.0.0
Specs Subject To Change Without Notice.